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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,168	08/30/2004	Shigeru Kasai	258107US3PCT	6673
22850	7590	07/17/2007		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER MOORE, KARLA A	
			ART UNIT	PAPER NUMBER
			1763	
			NOTIFICATION DATE	DELIVERY MODE
			07/17/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/505,168

Applicant(s)

KASAI ET AL.

Examiner

Karla Moore

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a)..

3. Claims 1-4, 8-12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent No. 10-313041 Tsubone et al.

4. Tsubone et al. disclose a treatment subject receiving vessel body substantially as claimed in Figures 1 and 2, comprising: a vessel main body (2/4), for supporting a plurality of treatment subjects; a joint port (immediately left of 5a in Figure 2) formed at one side surface of the vessel main body and communicating with an interior of the vessel main body and communicating with an interior of the vessel main body; and an openable and closeable gate valve (5a) installed at the joint port; wherein the vessel main body becomes sealed airtight when the gate valve is closed.

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1. However, Tsubone et al. fail to disclose an openable and closeable exhaust port disposed in the vessel main body.

2. However, Tsubone et al. do disclose that by providing individual structures of the apparatus with individual atmosphere control means (i.e. exhaust means and inert gas source means) cross-contamination can be prevented and therefore the maintainability of the structures is enhanced (JPO abstract and paragraphs 13-15 of translation).

3. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided individual atmosphere control means for each of the structures of the apparatus in order to prevent cross contamination and therefore the maintainability of the structures is enhanced as taught by Tsubone et al.

4. With respect to claim 2, see above.

5. With respect to claim 3, the treatment subject receiving vessel body may be a part of a treating system further comprising: a first transport auxiliary chamber (7 adjacent 3a) having at one side thereof a vessel body port (to right of 5b) to which the treatment subject receiving vessel body is connected and having therein a transport arm (16) for transporting a treatment subject; a second transport auxiliary chamber (7 adjacent 3b) having at one side thereof a vessel body port to which the treatment subject receiving vessel body port is connected and having therein a transport arm mechanism (16) for transporting the treatment subject; and a vessel body transfer unit (between a and 3a-3c, see arrows) for transporting the treatment subject receiving vessel body between the first transport auxiliary chamber and the second transport auxiliary chamber. Further, it is noted that it would have been obvious to one of ordinary skill in the art to provide the atmosphere control mechanism an all of the transport chambers for the reason(s) provided above.

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6. With respect to claim 4, a processing chamber (3a-c) for performing a process on the treatment subject, and wherein the second transport auxiliary chamber is located such that another side thereof is adjacent to the processing chamber and the transport arm mechanism therein is capable of transporting the treatment subject between the processing chamber and the treatment subject receiving vessel body.

7. With respect to claim 8, the vessel body port of the first transport auxiliary chamber is provided with an openable and closable gate valve (5c), and the vessel body port of the second transport auxiliary chamber is also provided with an openable and closable gate valve (5c).

8. With respect to claim 9, the first transport auxiliary chamber is provided with a gas exhaust line (via the processing chamber); the second transport auxiliary chamber is also provided with a gas exhaust line (via the processing chamber), a port gas supply line (containing 14 and 15) and a port gas exhaust line (containing 12 and 13) are installed outside the gate valve of the vessel body port of the first transport auxiliary chamber; and a port gas supply line (containing 14 and 15) and a port gas exhaust line (containing 12 and 13) are also installed outside the gate valve of the vessel body port of the second transport auxiliary chamber.

9. With respect to claim 10, the first transport auxiliary chamber is provided with a gas supply line and the second transport auxiliary chamber is also provided with a gas supply line (via the processing chamber).

10. With respect to claim 11, see above description of the atmosphere control mechanism described in Tsubone.

11. With respect to claim 12, a positioning projection mechanism (11) is formed on the bottom surface of the vessel main body.

12. With respect to claim 14, the vessel body is capable of being part of a treating system.

13. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsubone et al. as applied to claims 1-4, 8-12 and 14 above in view of Japanese Patent No. 09064144 to Uryu et al.

14. Tsubone et al. disclose the invention substantially as claimed and as described above, including a pair of buffer mounting tables (Figure 2, attached to 10) installed in the transport chambers.

15. However, Tsubone et al. fail to teach a loading/unloading port onto which a cassette vessel containing a plurality of treatment objects is placed.

16. Uryu et al. teach providing a loading/unloading port (Figure 1, left side of 1) onto which a cassette vessel (11) is provided for the purpose of temporary storage between conveyance to/from the cassette and common transfer chamber (right side of 1) with a positioning mechanism (13) and a processing chamber.

17. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention was made to have provided a loading/unloading port in Tsubone et al. along with a common transfer chamber for the purpose of temporary storage between conveyance to/from the cassette and to/from the combined transfer chamber and processing chamber as taught by Uryu et al.

30. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsubone et al. as applied to claims 1-4, 8-12 and 14 above, and further in view of French Patent Publication No. 2677112A to Dessert.

31. Tsubone et al. disclose the invention substantially as claimed and as described above.

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32. However, Tsubone et al. fail to teach that a rechargeable pump power source is provided for the exhaust source of the vessel main body.

33. Dessert teaches providing a rechargeable power source for a vacuum pump for the purpose of providing recharging on site thus avoiding expensive return visits to a base workshop (abstract).

34. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention was made to have provided a rechargeable power source for the vacuum pumps of Tsubone et al. in order to provide onsite recharging and thus avoid return visits to a base workshop as taught by Dessert.

Response to Arguments

35. Applicant's arguments with respect to the lack of an exhaust port connected to the vessel main body of Tsubone et al. have been considered but are moot in view of the new ground(s) of rejection. Further, the perceived deficiencies with respect to the rejections of claims 5 and 7 are addressed above, as well, and therefore mute.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be reached on Monday-Friday, 9:00 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kara Moore
Primary Patent Examiner
Art Unit 1763
9 July 2007